PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☑ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	XBA254	Setup Date	10/15/12
Site Name	XBA	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	M. Crowe	PEP PQ200A Serial No.	595

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DeltaCal	00197
Temperature Standard		
Barometric Pressure Standard		
Flow Rate Standard		
Time Checks OK?	☑ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/15/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	99 cmH_2O	100 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	758 mmHg	755 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	16.7 °C	16.7 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	17.0 °C	17.4 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.78 Lpm	16.70 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.78 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	2324	Cassette Retrieval Date/Time:	10:42 10/17/12
PM Cut Point	☑ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☑ Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.12
Start Date/Time	10/16/12 0:00	**Data Download OK?**	☐ Yes ☐ No (describe)
Stop Date/Time	10/17/12 0:00		
Temperature (°C)	Max: 24.2	Min: 8.4	Avg: 15.8
Bar. Pressure (mm Hg)	Max: 757	Min: 752	Avg: 755
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]		GW 10/17/12	
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	**2324**
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636124
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informati	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	R

Normally, the weighing laboratory completes Part I, keeps 1 copy and send

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/15/12	PEP Field Scientist: M. CROWE
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: 10/15/12	Serial No.:
AQS Site ID	YBA 254	POC: 1
Other Operators or Observers	N/A	

Sampling Event Filter Data		
Sampling Date: 10/16/12	Retrieval Date: 10/17/12	Time: 10:42
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☒ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation: USEPA RTP	
Shipped by	G. NOAH	Shipping Destination: RTP LAB	
Tracking No.	N/A	Shipping Company: N/A	

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse TSP

Sampling Event Information			
AQS Site ID	YBA ~~FSP4~~ TSP4	Setup Date	10/15/12
Site Name	YBA GW 10/15/12	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	M. Crowe	PEP PQ200A Serial No.	594

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DeltaCal	00197
Temperature Standard	MC	GW 10/15/12
Barometric Pressure Standard		
Flow Rate Standard		
Time Checks OK?	☑ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/15/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	98 cmH_2O	99 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	756 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	16.6 °C	17.1 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	16.6 °C	18.2 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.68 Lpm	16.70 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.68 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	2186	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP	10/17/12 10:49	
Elapsed Time (ET)	10/16/12 0:00	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	10/17/12 0:00		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.47
Start Date/Time	23:59 23:59 (EST) 10/12	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	24:03		
Temperature (°C)	Max: 24.2	Min: 8.5	Avg: 15.8
Bar. Pressure (mm Hg)	Max: 758	Min: 754	Avg: 755
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]		GW 10/17/12	
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: TSP Day 4 Collocated WATER DROPLETS ON FILTER.

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	2186
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636127
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10/11/2012	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/15/12	PEP Field Scientist: M. CROWE
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	~~Make/Model:~~	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: 10/18/12	Serial No.:
AQS Site ID	YBA TSCH	POC: 1
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date: 10/16/12	Retrieval Date: 10/17/12	Time: 10:49
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10 TSP | PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	US EPA R4
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:	
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse PM10

Sampling Event Information			
AQS Site ID	YBA 104	Setup Date	10/15/12
Site Name	YBA	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	M. Crane	PEP PQ200A Serial No.	592

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DeltaCal	00197
Temperature Standard		
Barometric Pressure Standard	GW 10/15/12	
Flow Rate Standard		
Time Checks OK?	☑ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/15/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	96 cmH_2O	96 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	751 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	16.5 °C	16.9 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	16.8 °C	17.9 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.9 Lpm	16.67 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.91 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	6413	Cassette Retrieval Date/Time:	10/17/12 10:38
PM Cut Point	☐ PM-2.5 ☑ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☑ Yes ☐ No (describe)
Total Volume (m^3)	24.04		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.43
Start Date/Time	10/16/12 0:00	**Data Download OK?**	☑ Yes ☐ No (describe)
Stop Date/Time	10/17/12 0:00		
Temperature (°C)	Max: 24.4	Min: 8.4	Avg: 15.8
Bar. Pressure (mm Hg)	Max: 754	Min: 744	Avg: 751
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags: P	
Companion Cassette ID[4]			
Collocated Cassette ID(s)[5]		GW 10/17/12	

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: PM10 DAY 4

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	8413
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636142
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	11/10/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		F
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Sh
Date This Filter Must be Used by:		Retı

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: C. Noah
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	10/15/12	PEP Field Scientist:	M. Crowe
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBA104	POC:	1
Other Operators or Observers	C. Noah		

Sampling Event Filter Data

Sampling Date: 10/16/12	Retrieval Date: 10/17/12	Time: 10:38
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	C. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse TSP

Sampling Event Information			
AQS Site ID	YBA TSP 4	Setup Date	10/15/12
Site Name	YBA	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	M. Crowe	PEP PQ200A Serial No.	588

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI Delta Cal.	00197
Temperature Standard		
Barometric Pressure Standard	G 10/15/12	
Flow Rate Standard		
Time Checks OK?	☑ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/15/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	098 cmH_2O	098 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	755 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	17.8 °C	17.9 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	17.8 °C	18.5 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	17.18 Lpm	16.80 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	17.18 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	10275	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP	10/17/12	10:47
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.46
Start Date/Time	10/16/12 0:000	**Data Download OK?**	☐ Yes ☐ No (describe)
Stop Date/Time	10/17/12 0:000		
Temperature (°C)	Max: 24.2	Min: 8.4	Avg: 15.9
Bar. Pressure (mm Hg)	Max: 757	Min: 753	Avg: 755
Field Blank Cassette ID	2062	Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]		GN 10/17/12	
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: WATER DROPS NOTED ON FILTER.

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	10275
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636123
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		F
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Sh
Date This Filter Must be Used by:		Retu

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 10/11/12 | Received by: G. Noah

Package Condition: ☑ Good ☐ Reject (Why?)

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	10/15/12	PEP Field Scientist:	M. Crowe
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	~~one~~
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	10/18/12
AQS Site ID	YBA TSP4	POC:	1
Other Operators or Observers	G. Noah		

Sampling Event Filter Data

Sampling Date: 10/16/12 | Retrieval Date: 10/17/12 | Time: 1047

Event Filter Integrity: ☑ OK ☐ Reject (describe)

Sample Type

☑ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10 TSP | PM-2.5 Separator Type: ☐ WINS ☐ VSCC N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	G. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Chain-of-Custody I

Filter Weighing and Shipping Information	
Filter Cassette No.	2062
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636126
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		Sl
Date This Filter Must be Used by:		Ret

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: C. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/15/12	PEP Field Scientist: M. Crowe
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: 10/18/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBATSP4FB	POC: 1
Other Operators or Observers	C. Noah	

Sampling Event Filter Data		
Sampling Date: 10/16/12	Retrieval Date: 10/17/12	Time: 10:47
Event Filter Integrity: ☑ OK ☐ Reject (describe)		

Sample Type

☐ RO - Routine ☑ FB - Field Blank (RO Cassette ID: 10275) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	C. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☑ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB254	Setup Date	10/15/12
Site Name	YBB	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	M. Crowe	PEP PQ200A Serial No.	587

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DeltaCal	00197
Temperature Standard		
Barometric Pressure Standard		
Flow Rate Standard		
Time Checks OK?	☑ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/15/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	095 97 cmH_2O	092 97 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	758 mmHg	759 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	15.1 °C	15.2 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	15.2 °C	15.3 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.90 Lpm	16.67 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.90 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	8468	Cassette Retrieval Date/Time:	9:22 10/16/12
PM Cut Point	☑ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☑ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.44
Start Date/Time	10/16/12 0:00	**Data Download OK?**	☑ Yes ☐ No (describe)
Stop Date/Time	10/17/12 0:00		
Temperature (°C)	Max: 23.4	Min: 9.0	Avg: 15.8
Bar. Pressure (mm Hg)	Max: 760	Min: 756	Avg: 758
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	Cal 10/17/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: P. flag not valid. Had to plug laptop into outlet.

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	**8468**
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636128
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10\11\12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10\15\12	PEP Field Scientist: M. CROWE
Site Name & Description	YBB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No: 10\18\12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBB 254	POC: 1
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date: 10\16\12	Retrieval Date: 10\16\12	Time: 9:22
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10\19\12	Affiliation: RTI USEPA	
Shipped by	G. NOAH	Shipping Destination: RTI LAB	
Tracking No.	N/A	Shipping Company: N/A	

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse PM 10

Sampling Event Information			
AQS Site ID	YBB 104	Setup Date	10/15/12
Site Name	YBB	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	M. CROWE	PEP PQ200A Serial No.	590

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI Delta Cal	00197
Temperature Standard		
Barometric Pressure Standard		
Flow Rate Standard		
Time Checks OK?	☑ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/15/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	108 cmH_2O	108 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	758 mmHg	755 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	15.5 °C	14.5 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	15.4 °C	15.5 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.8 Lpm	16.67 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.8 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	20095	Cassette Retrieval Date/Time:	9:25 10/17/12
PM Cut Point	☐ PM-2.5 ☑ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☑ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.50
Start Date/Time	10/16/12 0:00	**Data Download OK?**	☑ Yes ☐ No (describe)
Stop Date/Time	10/17/12 0:00		
Temperature (°C)	Max: 23.2	Min: 8.7	Avg: 15.4
Bar. Pressure (mm Hg)	Max: 757	Min: 752	Avg: 754
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]			
Collocated Cassette ID(s)[5]	10/17/12		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	2095
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636130
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informati	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	F

Normally, the weighing laboratory completes Part I, keeps 1 copy and sen

PART II – FIELD OFFICE

Date Received: 10/12/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/15/12	PEP Field Scientist: M. Crowe
Site Name & Description	YBB	
Primary SLT PM-2.5 Sampler	Make/Model: ~~Serial No.: 10/18/12~~	
Primary SLT PM-10 Sampler	Make/Model: Serial No.:	
AQS Site ID	YBB 104	POC: 1
Other Operators or Observers	N/A.	

Sampling Event Filter Data

Sampling Date: 10/16/12	Retrieval Date: 10/17/12	Time: 0925
Event Filter Integrity: ☑ OK ☐ Reject (describe)		

Sample Type

☑ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☑ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	G. Noah	Shipping Destination:	R4 Lab
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse TSP

Sampling Event Information			
AQS Site ID	YBB TSP 4	Setup Date	10/15/12
Site Name	YBB	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	M. Crowe	PEP PQ200A Serial No.	597

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DeltaCal	00197
Temperature Standard		
Barometric Pressure Standard		
Flow Rate Standard		
Time Checks OK?	☑ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/15/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	98 cmH_2O	99 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	758 mmHg	755 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	15.3 °C	14.2 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	15.3 °C	15.1 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.88 Lpm	16.70 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.88 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	5323	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP	9:29	10/17/12
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☑ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.49
Start Date/Time	10/16/12 0:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/17/12 0:00		
Temperature (°C)	Max: 22.9	Min: 8.5	Avg: 15.3
Bar. Pressure (mm Hg)	Max: 756	Min: 752	Avg: 754
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	GN 10/17/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	5323
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636134
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		Fi
Weighing Lab		
Analyst/Custodian		Ta
Shipment Date		
Sent to (PE Org)		Shi
Date This Filter Must be Used by:		Retu

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2 c

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/15/12	PEP Field Scientist: M. Crowe
Site Name & Description	YBB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: ~~10/18/12~~
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBB TSP4	POC: 1
Other Operators or Observers	N/A	

Sampling Event Filter Data		
Sampling Date: 10/16/12	Retrieval Date: 10/17/12	Time: 0929
Event Filter Integrity: ☑ OK ☐ Reject (describe)		

Sample Type

☑ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10 TSP | PM-2.5 Separator Type: ☐ WINS ☐ VSCC N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	US EPA R4
Shipped by	G. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse PM10

Sampling Event Information			
AQS Site ID	YBA ~~AT~~ 105	Setup Date	10/17/12
Site Name	YBA	Primary SLT Sampler Serial No.	——
PEP Field Scientist	G. NOAA	PEP PQ200A Serial No.	592

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	0197
Temperature Standard		
Barometric Pressure Standard		
Flow Rate Standard	G 10/17/12	
Time Checks OK?	☒ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/17/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	97 cmH_2O	96 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	750 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	22.4 °C	21.7 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	23.8 °C	22.3 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard** G 10/17/12	**Sampler**	**Verification OK?**
	< 4% difference	16.78 Lpm	16.90 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.93 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	5129	Cassette Retrieval Date/Time:	10/18/12 12:22
PM Cut Point	☐ PM-2.5 ☒ PM-10		
Elapsed Time (ET)	24:000	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.54
Start Date/Time	10/17/12 12:000	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/18/12 12:000		
Temperature (°C)	Max: 27.8	Min: 16.9	Avg: 21.0
Bar. Pressure (mm Hg)	Max: 750	Min: 744	Avg: 747
Field Blank Cassette ID	10424	Sampler Flags[3]:	P
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]			
Collocated Cassette ID(s)[5]	G 10/18/12		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	5129
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636139
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informati	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	R

Normally, the weighing laboratory completes Part I, keeps 1 copy and send

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/17/12	PEP Field Scientist: G. Noah
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: ~~10/18/12~~
Primary SLT PM-10 Sampler	Make/Model:	~~Serial No.:~~
AQS Site ID	YBA105	POC: 1
Other Operators or Observers	M. Crowe	

Sampling Event Filter Data

Sampling Date: 10/17/12	Retrieval Date: 10/18/12	Time: 1222
Event Filter Integrity: ☑ OK ☐ Reject (describe)		

Sample Type

☑ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☑ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	G. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	10424
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636136
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/17/12	PEP Field Scientist: G. Noah
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model:	Serial No.: 10/18/12
AQS Site ID	YBA	POC: 1
Other Operators or Observers	M. Crowe	

Sampling Event Filter Data

Sampling Date: 10/17/12	Retrieval Date: 10/18/12	Time: 1222
Event Filter Integrity: ☑ OK ☐ Reject (describe)		

Sample Type

☐ RO - Routine ☑ FB - Field Blank (RO Cassette ID: 5129) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☑ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	G. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse TSP

Sampling Event Information			
AQS Site ID	YBA TSPS	Setup Date	10/17/12
Site Name	YBA	Primary SLT Sampler Serial No.	—
PEP Field Scientist	G. NOAH	PEP PQ200A Serial No.	588

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	0197
Temperature Standard		
Barometric Pressure Standard	G 10/17/12	
Flow Rate Standard		
Time Checks OK?	☒Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/17/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	101 cmH_2O	98 cmH_2O	☒Yes ☐No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	754 mmHg	☒Yes ☐No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	24.2 °C	22.5 °C	☒Yes ☐No
Filter Sensor	± 2°C	28.5 °C	30.0 °C	☒Yes ☐No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.90 Lpm	16.95 Lpm	☒Yes ☐No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.90 Lpm	16.67 Lpm	☐Yes ☐No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	5050	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP	10/18/12 12:14	
Elapsed Time (ET)	25.59	**Filter Integrity OK?**	☒Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.78	CV: 0.51
Start Date/Time	10/17/12 12:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/18/12 12:00		
Temperature (°C)	Max: 28.0	Min: 17.0	Avg: 21.0
Bar. Pressure (mm Hg)	Max: 754	Min: 748	Avg: 751
Field Blank Cassette ID		Sampler Flags[3]: P	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	G 10/18/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	5050
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636149
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	11/10/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		F
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Sl
Date This Filter Must be Used by:		Ret

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/17/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: 10/18/12	Serial No.:
AQS Site ID	YBA TSP5	POC: 1
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date: 10/17/12	Retrieval Date: 10/18/12	Time: 12:14
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10 TSP | PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/17/12	Affiliation:	USEPA R4
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:	
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse PM10

Sampling Event Information			
AQS Site ID	YBA ~~PM~~ 10C5	Setup Date	10/17/12
Site Name	YBA	Primary SLT Sampler Serial No.	—
PEP Field Scientist	G. NOAH	PEP PQ200A Serial No.	594

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	0197
Temperature Standard		
Barometric Pressure Standard	GW 10/17/12	
Flow Rate Standard		
Time Checks OK?	☒ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/17/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	99 cmH_2O	97 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	756 mmHg	755 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	23.5 °C	23.0 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	24.2 °C	23.4 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.79 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.79 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	10924	Cassette Retrieval Date/Time: GW 10/18/12	
PM Cut Point	☐ PM-2.5 ☒ PM-10 GW	10/18/12 +2:00	12:10
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.04		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.59
Start Date/Time	10/17/12 12:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/18/12 12:00		
Temperature (°C)	Max: 27.7	Min: 17.0	Avg: 21.0
Bar. Pressure (mm Hg)	Max: 755	Min: 749	Avg: 751
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	GW 10/18/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	10924
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636131
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends .

PART II – FIELD OFFICE

Date Received: 10/11/12 Received by: G. Noah

Package Condition: ☑ Good ☐ Reject (Why?)

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	10/17/12	PEP Field Scientist:	G. Noah
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	10/18/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBA10C5	POC:	1
Other Operators or Observers	M. Crowe		

Sampling Event Filter Data

Sampling Date: 10/17/12 Retrieval Date: 10/18/12 Time: 1210

Event Filter Integrity: ☑ OK ☐ Reject (describe)

Sample Type

☑ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☑ PM-10 PM-2.5 Separator Type: ☐ WINS ☐ VSCC N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	G. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☒ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YGA 255	Setup Date	10/17/12
Site Name	YRA	Primary SLT Sampler Serial No.	—
PEP Field Scientist	G. NOAH	PEP PQ200A Serial No.	595

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	197
Temperature Standard		
Barometric Pressure Standard	GN 10/17/12	
Flow Rate Standard		
Time Checks OK?	☒ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/17/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	96 cmH_2O	94 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	754 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	21.9 °C	29.1 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	24.7 °C	25.2 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.93 Lpm	16.67 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.93 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	8913	Cassette Retrieval Date/Time:	10/18/12 12:19
PM Cut Point	☒ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	24:00	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.76	CV: 0.41
Start Date/Time	10/17/12 12:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/18/12 12:00		
Temperature (°C)	Max: 27.9	Min: 16.8	Avg: 21.6
Bar. Pressure (mm Hg)	Max: 754	Min: 748	Avg: 751
Field Blank Cassette ID		Sampler Flags[3]:	P
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	GN 10/18/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

3

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	8913
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636125
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4. Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		Fi
Weighing Lab		
Analyst/Custodian		Ta
Shipment Date		
Sent to (PE Org)		Shi
Date This Filter Must be Used by:		Retu

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2 c

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	10/17/12	PEP Field Scientist:	G. Noah
Site Name & Description	YBA		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	10/18/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBA255	POC:	1
Other Operators or Observers	N/A		

Sampling Event Filter Data

Sampling Date: 10/17/12	Retrieval Date: 10/18/12	Time: 12:19
Event Filter Integrity: ☑ OK ☐ Reject (describe)		

Sample Type

☑ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☑ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☑ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	US EPA R4
Shipped by	G. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☒ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB 255 POC: 1	Setup Date	10/17/12
Site Name	YBB	PEP Field Scientist	G. NOAH
GPS Latitude	___ ___ ___ . ___ ___ ___ ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ ___ ___ . ___ ___ ___ ___	PEP PQ200A Serial No.	587

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTACAL	0197	3/2/2012
Temperature Standard			
Barometric Pressure Standard		GW 10/17/12	
Flow Rate Standard			

Time Checks OK?	☒ Yes ☐ No (describe)
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/17/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	98 cmH_2O	95 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	758 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	14.4 °C	14.0 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	14.5 °C	12.8 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.65 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.65 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	53401	Cassette Retrieval Date/Time:	10/18/12 10:14
PM Cut Point	☒ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	24.00	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.46
Start Date/Time	10/17/12 10:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/18/12 10:00		
Temperature (°C)	Max: 26.4	Min: 15.1	Avg: 21.0
Bar. Pressure (mm Hg)	Max: 758	Min: 752	Avg: 754
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]			
Collocated Cassette ID(s)[5]	GW 10/18/12		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	5301
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636138
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	11/10/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		Fi
Weighing Lab		
Analyst/Custodian		Ta
Shipment Date		
Sent to (PE Org)		Shi
Date This Filter Must be Used by:		Retu

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/17/12	PEP Field Scientist: G. Noah
Site Name & Description	YBB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.: 10/18/12
Primary SLT PM-10 Sampler	Make/Model:	~~Serial No.:~~
AQS Site ID	YBB255	POC: 1
Other Operators or Observers	M. Crowe	

Sampling Event Filter Data		
Sampling Date: 10/17/12	Retrieval Date: 10/18/12	Time: 1014
Event Filter Integrity: ☑ OK ☐ Reject (describe)		

Sample Type

☑ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☑ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☑ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	G. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse TSP

Sampling Event Information			
AQS Site ID	VBB TSPS POC: 1	Setup Date	10/17/12
Site Name	VBB	PEP Field Scientist	G. Norris
GPS Latitude	___.___	Primary SLT Sampler Serial No.	———
GPS Longitude	___.___	PEP PQ200A Serial No.	597

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTACAL	0597	3/2/2012
Temperature Standard		GN 10/17/12	
Barometric Pressure Standard			
Flow Rate Standard			

Time Checks OK?	☒ Yes ☐ No (describe)
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/17/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	96 cmH_2O	96 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	757 mmHg	754 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	14.9 °C	14.1 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	14.6 °C	13.3 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.86 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.86 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	2368	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☐ PM-10 TSP	10/18/12 10:10	
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.49
Start Date/Time	10/17/12 10:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/18/12 10:00		
Temperature (°C)	Max: 26.0	Min: 14.8	Avg: 20.5
Bar. Pressure (mm Hg)	Max: 754	Min: 747	Avg: 750
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	GN 10/18/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	2368
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636133
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informati	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	R

Normally, the weighing laboratory completes Part I, keeps 1 copy and send:

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. Noah
Package Condition: ☑ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	10/17/12	PEP Field Scientist:	G. Noah
Site Name & Description	YBB		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	~~me~~ 10/18/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBBTSP5	POC:	1
Other Operators or Observers	M. Crowe		

Sampling Event Filter Data		
Sampling Date: 10/17/12	Retrieval Date: 10/18/12	Time: 1010
Event Filter Integrity: ☑ OK ☐ Reject (describe)		

Sample Type

☑ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10 TSP | PM-2.5 Separator Type: ☐ WINS ☐ VSCC N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	G. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:	Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse PM10

Sampling Event Information			
AQS Site ID	485 105 POC: 1	Setup Date	10/17/12
Site Name	488	PEP Field Scientist	G. NOBLE
GPS Latitude	___ ___ ___.___ ___ ___ ___ ___	Primary SLT Sampler Serial No.	N/A
GPS Longitude	___ ___ ___.___ ___ ___ ___ ___	PEP PQ200A Serial No.	590

Parameter Check Device	Make/ Model	Serial No.	Last Calibration Date
Multi-Standard[1]	BGI DELTACAL	6197	3/2/2012
Temperature Standard		GN 10/17/12	
Barometric Pressure Standard			
Flow Rate Standard			
Time Checks OK?	☒ Yes ☐ No (describe)		
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)		

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/17/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	108 cmH_2O	107 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria** 757	**Ref Standard** 754	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	16.80 mmHg	16.70 mmHg	☐ Yes ☐ No
Temperature	**Criteria**	**Ref Standard** GN 10/17/12	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	15.1 °C	14.7 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	15.0 °C	13.9 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.80 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	16.00 ≤ Q ≤ 17.34	16.70 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	4262	Cassette Retrieval Date/Time:	10/18/12 10:14
PM Cut Point	☐ PM-2.5 ☒ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.41
Start Date/Time	10/17/12 10:00	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/18/12 10:00		
Temperature (°C)	Max: 26.1	Min: 15.0	Avg: 20.7
Bar. Pressure (mm Hg)	Max: 754	Min: 747	Avg: 750
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	GN 10/18/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*
[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*
[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	4262
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636140
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	11/10/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		F
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Shi
Date This Filter Must be Used by:		Retu

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2 c

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. Noah
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information			
Arrival Date at Site	10/17/12	PEP Field Scientist:	G. Noah
Site Name & Description	~~YBA~~ YBB		
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:	10/18/12
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:	
AQS Site ID	YBB 105	POC:	1
Other Operators or Observers	N/A		

Sampling Event Filter Data		
Sampling Date: 10/17/12	Retrieval Date: 10/18/12	Time: 10:14
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC N/A

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	USEPA R4
Shipped by	G. Noah	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

YBA **PEP Event Type:** ☒ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	~~YBB~~ 25C6	Setup Date	10/18/12
Site Name	~~YBB~~ YBA	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	C. NOAH	PEP PQ200A Serial No.	594

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	0197
Temperature Standard		
Barometric Pressure Standard	CN 10/15/12	
Flow Rate Standard		
Time Checks OK?	☒ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/15/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	98 cmH_2O	97 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	755 mmHg	753 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	25.6 °C	24.4 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	26.2 °C	25.9 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	17.14 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	17.14 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	8377	Cassette Retrieval Date/Time:	10/19/12 13:32
PM Cut Point	☒ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	24:00	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.04		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.51
Start Date/Time	10/18/12 13:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/19/12 13:30		
Temperature (°C)	Max: 28.1	Min: 6.2	Avg: 15.3
Bar. Pressure (mm Hg)	Max: 756	Min: 751	Avg: 753
Field Blank Cassette ID		Sampler Flags[3]:	P
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	CN 10/19/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes: P FROM DOWNLOAD, NOT DURING SAMPLING PERIOD

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	8377
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636137
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	11/10/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/8/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: G 10/18/12	Serial No.:
AQS Site ID	YBA 2506	POC: 1
Other Operators or Observers		

Sampling Event Filter Data

Sampling Date: 10/18/12	Retrieval Date: 10/19/12	Time: 13:32
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	R4 EPA
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

TSP

GW 10/15/12 PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse GW 10/18/12

YBA GW 10/18/12

Sampling Event Information			
AQS Site ID	YEB 108 TS6	Setup Date	10/18/12
Site Name YBA	YEB	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	G. NOAH	PEP PQ200A Serial No.	588

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	0197
Temperature Standard		
Barometric Pressure Standard	GW 10/18/12	
Flow Rate Standard		
Time Checks OK?	☒ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/18/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	105 cmH_2O	103 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	752 mmHg	755 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	26.1 °C	24.6 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	30.5 °C	32.5 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.93 Lpm	16.72 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.93 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	10219 GW 10/19/12	Cassette Retrieval Date/Time:	
PM Cut Point	☐ PM-2.5 ☒ PM-10 GW	10/19/12 13:37	
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.02		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.78	CV: 0.49
Start Date/Time	10/18/12 13:30	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/19/12 13:30		
Temperature (°C)	Max: 28.5	Min: 6.1	Avg: 15.3
Bar. Pressure (mm Hg)	Max: 755	Min: 750	Avg: 753
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	GW		
Collocated Cassette ID(s)[5]	10/19/12		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody I

Filter Weighing and Shipping Information	
Filter Cassette No.	10219 June 10/11/12
Cassette Type	B&L ~~R&P~~ Sampler Cassette
Filter ID No.	T2636129
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		I
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		Sl
Date This Filter Must be Used by:		Rel

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/18/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: 10/18/12	Serial No.:
AQS Site ID	YBA T56	POC:
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date: 10/18/12	Retrieval Date: 10/19/12	Time: 13:37
Event Filter Integrity: ☒ OK ☐ Reject (describe)		
Sample Type		
☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☐ Void (why?)		
PEP Cut Point: ☐ PM-2.5 ☐ PM-10 ~~TSP~~	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation: EPA RTP	
Shipped by	G. NOAH	Shipping Destination: RTP LAB	
Tracking No.	N/A	Shipping Company: N/A	

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse PM 10

Sampling Event Information			
AQS Site ID	06 YBA 106	Setup Date	10/18/12
Site Name	YBA	Primary SLT Sampler Serial No.	—
PEP Field Scientist	G. NOAH	PEP PQ200A Serial No.	592

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	0197
Temperature Standard		
Barometric Pressure Standard	GN 10/18/12	
Flow Rate Standard		
Time Checks OK?	☒ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/18/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	100 cmH_2O	99 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	755 mmHg	749 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	25.5 °C	24.8 °C	☐ Yes ☐ No
Filter Sensor	± 2°C	26.4 °C	26.3 °C	☐ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.97 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.97 Lpm	16.67 Lpm	☐ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	1809	Cassette Retrieval Date/Time:	10/19/12 13:45
PM Cut Point	☐ PM-2.5 ☒ PM-10		
Elapsed Time (ET)	10/18/12 13:30	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	10/19/12 13:30		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.71	CV: 0.39
Start Date/Time	23:59	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	24:02		
Temperature (°C)	Max: 28.3	Min: 6.2	Avg: 15.2
Bar. Pressure (mm Hg)	Max: 751	Min: 746	Avg: 749
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	GN		
Collocated Cassette ID(s)[5]	10/19/12		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	1809
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636132
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		Fil
Weighing Lab		
Analyst/Custodian		Ta
Shipment Date		
Sent to (PE Org)		Shi
Date This Filter Must be Used by:		Retur

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2 c

PART II – FIELD OFFICE

Date Received: 10/11/2012	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/18/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	~~Make/Model:~~ GV 10/18/12	Serial No.:
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBA 106	POC: 1
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date: 10/18/12	Retrieval Date: 10/19/12	Time: 13:45
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	R4 EPA
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☑ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBA 256	Setup Date	10/18/12
Site Name	YBA	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	M. Crowe	PEP PQ200A Serial No.	595

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DeltaCal	0197
Temperature Standard		
Barometric Pressure Standard		
Flow Rate Standard		
Time Checks OK?	☑ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☑ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/18/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	100 cmH_2O	100 cmH_2O	☑ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	755 mmHg	752 mmHg	☑ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	26.9 °C	25.6 °C	☑ Yes ☐ No
Filter Sensor	± 2°C	28.2 °C	29.0 °C	☑ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	17.19 Lpm	16.70 Lpm	☑ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	17.19 Lpm	16.67 Lpm	☑ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	4886	Cassette Retrieval Date/Time:	10/19/12 13:41
PM Cut Point	☑ PM-2.5 ☐ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.01		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.33
Start Date/Time	10/18/12 13:30	**Data Download OK?**	☐ Yes ☐ No (describe)
Stop Date/Time	10/19/12 13:30		
Temperature (°C)	Max: 28.6	Min: 6.1	Avg: 15.3
Bar. Pressure (mm Hg)	Max: 755	Min: 750	Avg: 753
Field Blank Cassette ID	8571	Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	CN		
Collocated Cassette ID(s)[5]	10/19/12		

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	4886
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636145
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	11/10/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatic	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	R

Normally, the weighing laboratory completes Part I, keeps 1 copy and send:

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/18/12	PEP Field Scientist: G. NOAH
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: 10/18/12	Serial No.:
AQS Site ID	YBA 256	POC: 1
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date: 10/18/12	Retrieval Date: 10/19/12	Time: 13:41
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☒ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	R4 EPA
Shipped by	G. NOAH	Shipping Destination:	R4 CAS
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:	
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	8571
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636150
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	11/10/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/18/12	PEP Field Scientist: M. CROWE
Site Name & Description	YBA	
Primary SLT PM-2.5 Sampler	Make/Model: G 10/18/12	Serial No.:
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID	YBA 256	POC: 1
Other Operators or Observers		

Sampling Event Filter Data

Sampling Date: 10/18/12	Retrieval Date: 10/19/12	Time: 13:41
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☐ RO - Routine ☒ FB - Field Blank (RO Cassette ID: 4886) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB G 10/19/12

Shipment Date	10/19/12	Affiliation: ~~R4 LAB~~ R4 EPA	
Shipped by	G. NOAH	Shipping Destination: R4 LAB	
Tracking No.	N/A	Shipping Company: N/A	

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient	

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse TSP

Sampling Event Information			
AQS Site ID	YGB TSP6	Setup Date	10/18/12
Site Name	YGB	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	G. NOAH	PEP PQ200A Serial No.	597

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	0197
Temperature Standard		
Barometric Pressure Standard	GJ 10/18/12	
Flow Rate Standard		
Time Checks OK?	☒ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date: 10/18/12
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	99 cmH_2O	98 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	754 mmHg	751 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	21.5 °C	20.2 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	21.4 °C	21.1 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.94 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.94 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	9847	Cassette Retrieval Date/Time:	
PM Cut Point	☒ PM-2.5 ☐ PM-10 TSP	10/19/12 10:54	
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.50
Start Date/Time	10/18/12 10:45	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/19/12 10:45		
Temperature (°C)	Max: 25.7	Min: 6.8	Avg: 15.0
Bar. Pressure (mm Hg)	Max: 753	Min: 749	Avg: 751
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	GJ 10/19/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	9847
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636141
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends .

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/18/12	PEP Field Scientist: G. NOAH
Site Name & Description	YRB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: GW 10/8/13	Serial No.:
AQS Site ID	YRB TSP6	POC: 1
Other Operators or Observers		

Sampling Event Filter Data

Sampling Date: 10/18/12	Retrieval Date: 10/19/12	Time: 10:54
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☐ PM-10 TSP	PM-2.5 Separator Type: ☐ WINS ☐ VSCC TSP

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation: RTI EPA	
Shipped by	G. NOAH	Shipping Destination: RTI LAB	
Tracking No.	N/A	Shipping Company: N/A	

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☒ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	4BB 256	Setup Date	10/18/12
Site Name	4BB	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	G. NOAH	PEP PQ200A Serial No.	587

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	0197
Temperature Standard		
Barometric Pressure Standard	G 10/18/12	
Flow Rate Standard		
Time Checks OK?	☒ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date:
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	99 cmH_2O	98 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	754 mmHg	755 mmHg	☒ Yes ☐ No
Temperature	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	21.2 °C	20.8 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	21.2 °C	21.2 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	17.05 Lpm	16.70 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	17.05 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	10322	Cassette Retrieval Date/Time:	
PM Cut Point	☒ PM-2.5 ☐ PM-10	10/19/12 10:48	
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.52
Start Date/Time	10/18/12 10:45	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/19/12 10:45		
Temperature (°C)	Max: 26.9	Min: 7.3	Avg: 15.4
Bar. Pressure (mm Hg)	Max: 758	Min: 753	Avg: 756
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	G 10/19/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	**10322**
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636148
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/18/12	PEP Field Scientist: G. NOAH
Site Name & Description	YRB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: 10/18/12	Serial No.:
AQS Site ID	YRB 256	POC: 1
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date: 10/18/12	Retrieval Date: 10/19/12	Time: 10:48
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☒ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	R4 EPA
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Field Data Sheet for BGI PQ200A

PEP Event Type: ☐ FRM PM-2.5 ☐ PM-Coarse

Sampling Event Information			
AQS Site ID	YBB 106	Setup Date	10/18/12
Site Name	YBB	Primary SLT Sampler Serial No.	N/A
PEP Field Scientist	G. NOAH	PEP PQ200A Serial No.	598

Parameter Check Device	Make/ Model	Serial No.
Multi-Standard[1]	BGI DELTACAL	0197
Temperature Standard		
Barometric Pressure Standard	G 10/18/12	
Flow Rate Standard		
Time Checks OK?	☒ Yes ☐ No (describe)	
Monitoring Site Criteria OK?	☒ Yes ☐ No (describe)	

[1] *Use this line for multi-standard instruments (e.g., BGI TriCal and DeltaCal) when used for all three checks.*

PQ200A PEP Sampler Verification Checks [2]				Date:
Leak Check	**Criteria**	**Beginning P**	**Ending P**	**Verification OK?**
2-Minute Interval	Change < 5 cmH_2O	101 cmH_2O	100 cmH_2O	☒ Yes ☐ No
Bar. Pressure	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
Ambient	± 10 mmHg	754 mmHg	751 mmHg	☒ Yes ☐ No
Temperature	**Criteria** 21.2	**Ref Standard** 26.4	**Sampler**	**Verification OK?**
Ambient Sensor	± 2°C	16.92 °C	16.67 °C	☒ Yes ☐ No
Filter Sensor	± 2°C	21.3 °C	21.4 °C	☒ Yes ☐ No
Flow Rate Verification				
Audit Standard FR (Cal.) Check	**Criteria**	**Ref Standard**	**Sampler**	**Verification OK?**
	< 4% difference	16.92 Lpm	16.67 Lpm	☒ Yes ☐ No
Design Flow Rate "Q" Check	**Criteria (±4%)**	**Ref Standard**	**Design**	**Verification OK?**
	15.83 ≤ Q ≤ 17.50	16.92 Lpm	16.67 Lpm	☒ Yes ☐ No

[2] *Indicate only the final result of the check after all troubleshooting has been done. Document troubleshooting in the "Notes" section below and/or in the field notebook. If troubleshooting is unsuccessful, the sampler must be recalibrated or repaired before conducting a sampling event. Fill out a new Field Data Sheet for the replacement sampler.*

PEP Exposure Data			
Filter Cassette ID	2539	Cassette Retrieval Date/Time:	10/19/12 10:48
PM Cut Point	☐ PM-2.5 ☒ PM-10		
Elapsed Time (ET)	23:59	**Filter Integrity OK?**	☒ Yes ☐ No (describe)
Total Volume (m^3)	24.03		
Flow Rate (Lpm)	Q: 16.7	Avg: 16.70	CV: 0.49
Start Date/Time	10/18/12 10:45	**Data Download OK?**	☒ Yes ☐ No (describe)
Stop Date/Time	10/19/12 10:45		
Temperature (°C)	Max: 26.2	Min: 6.9	Avg: 15.1
Bar. Pressure (mm Hg)	Max: 754	Min: 749	Avg: 752
Field Blank Cassette ID		Sampler Flags[3]:	
Trip Blank Cassette ID		Field Flags:	
Companion Cassette ID[4]	G 10/19/12		
Collocated Cassette ID(s)[5]			

[3] *Make sure to add (EST) flag in "Sampler Flags" if runtime is outside of 1380- 1500 minute range.*

[4] *For PM-coarse sampling event, if PM-2.5 is routine filter type, then list the companion PM-10 filter cassette ID and vice versa.*

[5] *For parking lot studies, all the IDs can be listed on one form. Be sure to indicate PM cut point.*

Notes:

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	2539
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635948
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		F
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Shi
Date This Filter Must be Used by:		Retu

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 10/11/2012	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site	10/18/12	PEP Field Scientist: G. NOAH
Site Name & Description	YRB	
Primary SLT PM-2.5 Sampler	Make/Model:	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: 10/18/12	Serial No.:
AQS Site ID	YRB 106	POC: 1
Other Operators or Observers		

Sampling Event Filter Data

Sampling Date: 10/18/12	Retrieval Date: 10/19/12	Time: 10:48
Event Filter Integrity: ☒ OK ☐ Reject (describe)		

Sample Type

☒ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used)

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☐ Void (why?)

PEP Cut Point: ☐ PM-2.5 ☒ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	R4 EPA
Shipped by	G. NOAH	Shipping Destination:	R4 UAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition: ☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	**8957**
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636135
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio	
Filter ID	
Weighing Lab	
Analyst/Custodian	
Shipment Date	
Sent to (PE Org)	
Date This Filter Must be Used by:	Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site		PEP Field Scientist:
Site Name & Description		
Primary SLT PM-2.5 Sampler	Make/Model: GV 10/18/12	Serial No.:
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID		POC:
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date:	Retrieval Date:	Time:
Event Filter Integrity: ☐ OK ☐ Reject (describe) GV 10/18/12		
Sample Type		
☐ RO - Routine ☐ FB - Field Blank (RO Cassette ID:_____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used)		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: GV 10/18/12)		
☒ Void (why?) EXRA FILTER		
PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	US EPA R4
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:	
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	4706
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636146
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		F
Weighing Lab		
Analyst/Custodian		T
Shipment Date		
Sent to (PE Org)		Sh
Date This Filter Must be Used by:		Retu

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 10/11/2012	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site		PEP Field Scientist:
Site Name & Description		
Primary SLT PM-2.5 Sampler	Make/Model: GV 10/18/12	Serial No.:
Primary SLT PM-10 Sampler	Make/Model:	Serial No.:
AQS Site ID		POC:
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date:	Retrieval Date: GV 10/18/12	Time:
Event Filter Integrity: ☐ OK ☐ Reject (describe)		
~~Sample Type~~		
☐ RO - Routine ☐ FB - ~~Field Blank~~ (RO Cassette ID: _____) ☐ Other (describe)		
☐ CO - Collocated PEP ☐ Expired Filter (not used) GV 10/18/12		
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☒ Void (why?) EXTRA FILTER		
PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	US EPA R4
Shipped by	G. NOAH	Shipping Destination:	R4 LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:	
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Chain-of-Custody F

Filter Weighing and Shipping Information	
Filter Cassette No.	2415
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2635947
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	**11/10/2012**

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Information		
Filter ID		Fi
Weighing Lab		
Analyst/Custodian		Ta
Shipment Date		
Sent to (PE Org)		Shi
Date This Filter Must be Used by:		Retu

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends 2

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival Date at Site		PEP Field Scientist:
Site Name & Description		
Primary SLT PM-2.5 Sampler	Make/Model: GN	Serial No.:
Primary SLT PM-10 Sampler	Make/Model: 10/18/12	Serial No.:
AQS Site ID		POC:
Other Operators or Observers		

Sampling Event Filter Data		
Sampling Date:	Retrieval Date: G 10/18/12	Time:
Event Filter Integrity: ☐ OK ☐ Reject (describe)		

Sample Type

☐ RO - Routine ☐ FB - Field Blank (RO Cassette ID: _____) ☐ Other (describe)

☐ CO - Collocated PEP ☐ Expired Filter (not used) GN 10/18/12

☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)

☒ Void (why?) EXTRA FILTER

PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation:	RTI EPA RTI
Shipped by	G. NOAH	Shipping Destination:	RTI LAB
Tracking No.	N/A	Shipping Company:	N/A

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:	
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature:	°C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes:

PEP Chain-of-Custody

Filter Weighing and Shipping Information	
Filter Cassette No.	1525
Cassette Type	BGI Sampler Cassette
Filter ID No.	T2636147
Weighing Lab	PM2.5 Laboratory
Analyst Name	Maddox
Weighing Date	10/11/2012
Shipped by	Judy Maddox
Shipment Date	10/11/2012
Airbill No.	OUT-101112
Sent to (PE Org)	R-4, Greg Noah
This Filter Must be Used by:	11/10/2012

PART I – WEIGHING LABORATORY

Filter Weighing and Shipping Informatio		
Filter ID		
Weighing Lab		
Analyst/Custodian		
Shipment Date		
Sent to (PE Org)		S
Date This Filter Must be Used by:		Re

Normally, the weighing laboratory completes Part I, keeps 1 copy and sends

PART II – FIELD OFFICE

Date Received: 10/11/12	Received by: G. NOAH
Package Condition: ☒ Good ☐ Reject (Why?)	

If rejected, the filter cassette should be returned to the weighing laboratory with the next outgoing shipment.

PART III – FIELD SITE

Sampling Event Information		
Arrival ~~Date at Site~~		PEP Field Scientist:
Site Name & Description		
Primary SLT PM-2.5 Sampler	Make/Model: GS 10/18/12	Serial No.:
Primary SLT PM-10 Sampler	Make/Model:	~~Serial No.~~:
AQS Site ID		POC:
Other Operators or Observers		

Sampling Event Filter Data		
~~Sampling Date:~~	Retrieval Date: GS 10/18/12	Time:
Event Filter Integrity: ☐ OK ☐ Reject (describe)		
Sample Type		
☐ RO - Routine	☐ ~~FB - Field Blank~~ (RO Cassette ID:_____)	☐ Other (describe)
☐ CO - Collocated PEP	☐ Expired Filter (not used) GS 10/18/12	
☐ TB - Trip Blank (last RO Cassette ID used in audit trip: _____)		
☒ Void (why?) EXTRA FILTER		
PEP Cut Point: ☐ PM-2.5 ☐ PM-10	PM-2.5 Separator Type: ☐ WINS ☐ VSCC	

PART IV – FIELD FILTER SHIPPING TO WEIGHING LAB

Shipment Date	10/19/12	Affiliation: R4 EPA-R4 GS 10/18/12	
Shipped by	G. NOAH	Shipping Destination: R4 LAB	
Tracking No.	N/A	Shipping Company: N/A	

On completion of Part II-IV, the field scientist keeps one copy and sends the top (original) copy to the laboratory with the filter.

PART V – WEIGHING LABORATORY

Date Received		Received by:		Integrity Flag:
Shipment Integrity OK?	☐ Yes ☐ No	Max Temperature: °C	Cold Pack Condition:	☐ Frozen ☐ Cold ☐ Ambient

The weighing laboratory will DATE-STAMP and attach the COC form to the receiving log-book, in which same info is recorded.

Notes: